Contents

JANUARY

Plenary* and invited lectures and Rossini lecture† presented at the 9th International IUPAC Conference on Chemical Thermodynamics held in Lisbon, Portugal: 14–18 July 1986

J. C. G. Calado	iv	Foreword
K. S. Pitzer*	1	Thermodynamic properties of ionic fluids over wide ranges of temperature
J. A. Morrison*	7	Calorimetry in the study of physical adsorption
J. S. Rowlinson*	15	Statistical thermodynamics of small systems and interfaces
E. U. Franck†	25	Fluids at high pressures and temperatures
F. L. Swinton	35	Mixtures of non-polar molecules
D. H. Everett	45	Application of thermodynamics to interfacial phenomena
W. G. Chapman, K. E. Gubbins, C. G. Joslin, and C. G. Gray	53	Mixtures of polar and associating molecules
M. E. Paulaitis and G. C. Alexander	61	Reactions in supercritical fluids. A case study of the thermodynamic solvent effects on a Diels-Alder reaction in supercritical carbon dioxide
R. Walsh	69	Derivation of thermodynamic quantities from kinetic measurements
O. L. Kuskov	73	Thermodynamics of minerals of the mantle transition zone
G. M. Schneider, M. Dittmann, U. Metz and J. Wenzel	79	Kinetics of phase separation in fluid mixtures by relaxation methods: Pressure-jump experiments and selected results
D. V. Fenby	91	Heat: Its measurement from Galileo to Lavoisier
Review article		
J. Bicerano and D. Adler	101	Theory of the structures of non-crystalline solids

FEBRUARY

Plenary lectures presented at the 24th International Conference on Coordination Chemistry held in Athens, Greece: 24–29 August 1986

D. M. P. Mingos	145	Complementary spherical electron density model for coordination compounds

Yu. E. Gorbunova, Yu. K. Kokunov and Yu. A. Buslaev	155	Stereochemistry of complex tellurium(IV) fluorides
A. E. Merbach	161	Use of high pressure kinetic studies in determining inorganic substitution mechanisms
J. Halpern	173	Some aspects of the coordination and catalytic chemistry of ruthenium
J. Reedijk	181	The mechanism of action of platinum antitumor drugs

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Commission on Polymer Characterization and Properties (J. L. White & H. Yamane)	193	A collaborative study of the stability of extrusion, melt spinning and tubular film extrusion of some high-, low- and linear-low density polyethylene samples
Commission on Polymer Characterization and Properties (J. M. Cann)	217	The onset of runaway creep in HIPS (high impact polystyrene): a study in variability
Commission of Microchemical Techniques and Trace Analysis (A. Cedergren & W. Frech)	221	Determination of aluminium in biological materials by graphite furnace atomic absorption spectrometry (GFAAS)
Commission on Microchemical Techniques and Trace Analysis (A. A. Galuska & G. H. Morrison)	229	Distribution analysis of major and trace elements through semiconductor layers of changing matrix using secondary ion mass spectrometry (SIMS)
Commission on Electroanalytical Chemistry (W. F. Smyth & M. R. Smyth)	245	Electrochemical analysis of organic pollutants
Commission on Biotechnology (T. K. Ghose)	257	Measurement of cellulase activities

MARCH

Plenary and Section lectures presented at the 15th International Symposium on the Chemistry of Natural Products held in the Hague, the Netherlands: 17–22 August 1986

Plenary lectures

E. J. Corey	269	Enzymic lipoxygenation of arachidonic acid: mechanism, inhibition, and role in eicosanoid biosynthesis
D. C. Phillips, A. Cordero-Borboa, B. J. Sutton and R. J. Todd	279	Crystallographic studies of the β-lactamases from *B. cereus*
M. Taton, P. Benveniste and A. Rahier	287	Use of rationally designed inhibitors to study sterol and triterpenoid biosynthesis
C. Walsh, T. Begley, and A. Walts	295	Bacterial organomercury lyase: a protonolytic detoxification catalyst

S. Hanessian, A. Ugolini, P. J. Hodges, P. Beaulieu, D. Dubé and C. André — 299 — Progress in natural product chemistry by the chiron and related approaches—synthesis of avermectin B_{1a}

V. T. Ivanov, T. M. Andronova, M. V. Bezrukov, V. A. Rar, E. A. Makarov, S. A. Kozmin, M. V. Astapova, T. I. Barkova and V. A. Nesmeyanov — 317 — Structure, design, and synthesis of immunoactive peptides

K. K. Ogilvie, M. J. Damha, N. Usman and R. T. Pon — 325 — Developments in the chemical synthesis of naturally occurring DNA and RNA sequences with normal and unusual linkages

J. W. van Nispen — 331 — Synthesis and analysis of (poly)peptides

G. Stork and S. D. Rychnovsky — 345 — Iterative butenolide construction of polypropionate chains. Application to an efficient synthesis of (+)(9S)-dihydroerythronolide A

S. Takano — 353 — Synthesis of natural products using chiral glycol precursors

R. Scheffold, S. Abrecht, R. Orlinski, H-R. Ruf, P. Stamouli, O. Tinembart, L. Walder and C. Weymuth — 363 — Vitamin B_{12}-mediated electrochemical reactions in the synthesis of natural products

Section lectures

Section A: Structure, chemistry and synthesis of natural products

C. Angst — 373 — Stereoselective synthesis of β,γ-unsaturated amino acids

S. V. Kessar — 381 — Generation and trapping of α-oxa and oxo *o*-quinodimethanes for natural product synthesis

P. Welzel, D. Böttger, U. Heinz, A. Hadi Said, A. Fischer and E. Adams — 385 — A synthesis of moenocinol from isoprenoid precursors

L. Ghosez, S. Bogdan, M. Cérésiat, C. Frydrych, J. Marchand-Brynaert, M. M. Portuguez and I. Huber — 393 — Synthesis and uses of azetidiniminium salts

M. Isobe, T. Nishikawa, N. Fukami and T. Goto — 399 — Synthetic studies on a stereochemically complex natural product: designs for the total synthesis of (−)-tetrodotoxin

Section B: Organic chemistry as a life science

M. D. Bratek-Wiewiórowska, M. Alejska, M. Figlerowicz, J. Barciszewski, M. Wiewiórowski, M. Jaskólski, W. Zienlenkiewicz, A. Zielenkiewicz and M. Kamiński — 407 — Interaction of polyamines, their protonated salts and metal complexes with nucleic acid fragments

R. R. Schmidt — 415 — *De novo* synthesis of carbohydrates and related natural products

S. Shinkai 425 Switch-functionalized systems in biomimetic chemistry

W. G. J. Hol 431 Protein crystallography, computer graphics and drug design

Section C: Biopolymers and their components

J. W. Engels, W. Becker, T. Beckers, D. Hüsken and W. Wetekam 437 Chemoenzymatic synthesis of a gene for the interleukin-2 receptor.

P. Sinaÿ 445 Recent advances in the study of the binding site of heparin to antithrombin

P. Lefrancier and E. Lederer 449 Muramyl-peptides

Mini-symposium: Chemistry and development of new generations of β-lactams

R. N. Guthikonda, L. D. Cama, M. Quesada, M. F. Woods, T. N. Salzmann and B. G. Christensen 455 Modification of natural products to improve their biological properties

M. Narisada 459 Structure-activity relationships of cephem analogs

G. Franceschi, M. Alpegiani, C. Battistini, A. Bedeschi, E. Perrone and F. Zarini 467 Penems: some recent advances

A. G. Brown 475 Discovery and development of new β-lactam antibiotics

R. D. G. Cooper, B. W. Daugherty and D. B. Boyd 485 Chiral control of the Staudinger reaction

APRIL

Plenary* and invited lectures presented at the International Symposium on New Sensors and Methods for Environmental Characterization (SMEC), held in Kyoto, Japan, 10–12 November 1986

T. Fujinaga iv Foreword

*T. Fujinaga 493 Sanshi-suimei-ron—Fundamentals in environmental chemistry

Yu. A. Zolotov, G. I. Malofeeva, O. M. Petrukhin and A. R. Timerbaev 497 New methods for preconcentration and determination of heavy metals in natural water

M. Sasa 505 Recent advances in the environmental and medical sciences achieved by the biosystematic studies—with special reference to the chironomids

K. Fuwa 515 Survey of some chemical background of the environment in Japan

K. Štulík	521	Electrochemical flow measurements in environmental analysis
S. Fujiwara	531	Capacitive and conductive dynamic response of ion-selective electrodes
T. Akiyama and E. Niki	535	Ion-sensitive field-effect transistor for pK and pNa sensing
H. Freiser	539	Coated wire ion-selective electrodes and their application to environmental problems
I. Karube and E. Tamiya	545	Biosensors for environmental control
A. Mizuike	555	Recent developments in trace metal speciation in fresh water
E. D. Goldberg	565	Comparative chemistry of the platinum and other heavy metals in the marine environment
H. Tanaka, T. Nakagawa, Y. Okabayashi, H. Aoyama, T. Tanaka, K. Itoh, M. Chikuma, Y. Saito, H. Sakurai and M. Nakayama	573	Development of functional resins by modification of ion-exchange resins and their application to analytical chemistry
*B. Sansoni	579	Multi-element analysis for environmental characterization

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Commission on Pesticide Chemistry (J. A. R. Bates and S. Gorbach)	611	Recommended approach to the appraisal of risks to consumers from pesticide residues in crops and food commodities

MAY

Plenary lectures presented at the Second International Symposium on Quantitative Luminescence Spectrometry in Biomedical Sciences held in Ghent, Belgium: 11–14 May 1987

U. A. Th. Brinkman, G. J. de Jong and C. Gooijer	625	Use of luminescence techniques for sensitive and selective determinations in HPLC (high-performance liquid chromatography)
J. C. Hummelen, T. M. Luider and H. Wynberg	639	Functionalized adamantylideneadamantane 1,2-dioxetanes: investigations on stable and inherently chemiluminescent compounds as a tool for clinical analysis
L. J. Kricka, G. H. G. Thorpe and R. A. W. Stott	651	Enhanced chemiluminescence enzyme immunoassay
S. G. Schulman, R. N. Kelly and N. J. Gonzalez	655	Steady-state fluorimetric studies of proton-transfer kinetics of some photoexcited hydroxyaromatics in DMSO–water solutions
O. S. Wolfbeis	663	Fibre-optic sensors in biomedical sciences

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Commission on Molecular Structure and Spectroscopy (J. G. Grasselli)	673	Specifications for infrared reference spectra of molecules in the vapor phase (Recommendations 1987)
IUPAC-IUB Joint Commission on Biochemical Nomenclature (A. Cornish-Bowden)	683	Nomenclature of prenols (Recommendations 1986)
Commission on Macromolecular Nomenclature	691	Use of abbreviations for names of polymeric substances (Recommendations 1986)
Commission on Microchemical Techniques & Trace Analysis (A. D. Campbell)	695	Determination of fluoride in various matrices
Commission on Electroanalytical Chemistry (K. M. Kadish & J. E. Anderson)	703	Purification of solvents for electroanalysis: benzonitrile; dichloromethane; 1,1-dichloroethane and 1,2-dichloroethane
Commission on Electroanalytical Chemistry (R. Kalvoda)	715	Polarographic determination of adsorbable molecules
Commission on Biotechnology (R. Ringpfeil, B. Nagel, Th. Kreuter, M. Moo-Young & C. Rolz)	723	Recommended methods for characterization of agricultural residues and feed products derived through bioconversion

JUNE

Plenary lectures to be presented at the Third International Conference on Bioinorganic Chemistry, Noordwijkerhout, the Netherlands: 6–10 July 1987

G. W. Canters	iv	Foreword
S. J. Lippard	731	Chemistry and molecular biology of platinum anticancer drugs
H. A. O. Hill	743	Bio-electrochemistry
G. Palmer	749	Cytochrome oxidase: a perspective
D. Mansuy	759	Cytochrome P–450 and synthetic models
K. N. Raymond, M. E. Cass and S. L. Evans	771	Metal sequestering agents in bioinorganic chemistry: enterobactin mediated iron transport in *E. coli* and biomimetic applications

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

IUPAC-IUB Joint Commission on Biochemical Nomenclature (G. P. Moss)	779	Nomenclature of tetrapyrroles (Recommendations 1986)
IUPAC-IUB Joint Commission on Biochemical Nomenclature (A. Cornish-Bowden)	833	Nomenclature and symbols for folic acid and related compounds (Recommendations 1986)

JULY

Plenary lectures presented at IMEBORON VI 'Sixth International Symposium on Boron Chemistry' held at Bechyně, Czechoslovakia: 22–26 June 1987

L. G. Sneddon	837	Transition metal promoted reactions of polyhedral boranes and carboranes
R. N. Grimes	847	Designed synthesis of multi-functional carboranes and organotransition metal–carborane complexes
N. N. Greenwood and R. Greatrex	857	Kinetics and mechanism of the thermolysis and photolysis of binary boranes
D. M. Schubert, W. S. Rees Jr., C. B. Knobler and M. F. Hawthorne	869	Studies of metallacarborane derivatives containing aluminum and silicon
H. C. Brown and B. Singaram	879	Organoboranes for synthesis—substitution with retention
Yu. N. Bubnov	895	Allylboranes—molecular design
R. Köster	907	After a third of a century in organoboron chemistry

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Commission on Analytical Reactions and Reagents (B. D. Flockhart and D. Thorburn Burns	915	Organic analytical reagents in nuclear magnetic resonance spectroscopy
Commission on Toxicology (B. Welz, M. S. Wolynetz and M. Verlinden)	927	Interlaboratory trial on the determination of selenium in lyophilized human serum, blood and urine using hydride generation atomic absorption spectrometry

AUGUST

Plenary and Session lectures presented at the First International Conference on Heteroatom Chemistry, Kobe, Japan: 19–24 July 1987

Plenary lectures

D. H. R. Barton and J-P. Finet	937	Bismuth(V) reagents in organic synthesis
W. Siebert	947	Remarkable properties of four-, five-, and six-membered diboraheterocycles
A. Fava, A. Bongini, V. Cerè, C. Paolucci, S. Pollicino and E. Sandri	955	Transannular addition of α-sulfinyl carbanions to unactivated double bonds. Intramolecularity as a reactivity factor

M. Ikehara, S. Nishikawa, H. Morioka, H. J. Kim, K. Fuchimura, T. Kimura, J. Adiwinata, T. Tanaka, E. Ohtsuka and S. Uesugi	965	Mechanism of hydrolysis of phosphodiesters with ribonuclease T1
C. R. Johnson	969	Unusual applications of oxygen heterocycles in synthesis
F. Wudl, G. Srdanov, B. Rosenau, D. Wellman, K. Williams, S. D. Cox and V. Yoon	975	Role of heteroatoms in the design and synthesis of organic metals
R. Appel	977	p_π-Double bonds between phosphorus and carbon—a challenge

Session lectures

M. Mikolajczyk	983	α-Heterosubstituted phosphonates and phosphinoxides
G. Capozzi	989	Methyl(bismethylthio)sulphonium salts and trimethylsilyl-sulphenyl halides as synthons in organo-sulphur chemistry
F. Mathey	993	Comparisons between the chemistry of phosphirenes and silirenes
G. Saito	999	Tetrachalcogenafulvalenes with outer chalcogeno substituents. Precursors of organic metals, superconductors, LB films, etc.
S. Kim	1005	Selective reductions with complex hydride reducing agents
A. Berndt, H. Meyer, G. Baum, W. Massa and S. Berger	1011	Stable germa- and stannaethenes
X-y. Li, X-k. Jiang, H-q. Pan, J-s. Hu and W-m. Fu	1015	Nucleophilic substitutions of perhalofluoroalkanes initiated by halophilic attacks
H. J. Reich and N. H. Phillips	1021	Lithium pentaalkyl/aryl stannate complexes as intermediates in the lithium–tin exchange reaction
H. Kanno	1027	An approach to a novel insect growth regulator buprofezin (Applaud®)
K. Ogura	1033	Development of sulfur compounds as synthetic reagents
M. Yoshioka	1041	Synthetic studies related to oral β-lactam antibiotics
L. N. Markovski, V. D. Romanenko and A. V. Ruban	1047	Synthesis, structure and properties of pentavalent three-coordinate phosphorus compounds
A. J. Arduengo, III	1053	Chemistry of tricoordinate hypervalent pnictogens
K. Seppelt	1057	Sulfur/carbon double and triple bonds

SEPTEMBER

Plenary and Invited lectures presented at the Eighth International Symposium on Solute-Solute-Solvent Interactions, Regensburg, FRG: 9–14 August 1987

H. L. Friedman	1063	New aspects of the theory of ionic solvation and ion–ion interactions in solution
P. Bopp	1071	Molecular dynamics computer simulations of solvation in hydrogen bonded systems
P. Turq, L. Orcil, J. P. Simonin and J. Barthel	1083	Transport properties and their coupling with ion aggregate formation
Y. Marcus	1093	Thermodynamics of ion hydration and its interpretation in terms of a common model
P. L. Huyskens	1103	Hydrogen bonds and EDA bonds formed by ions
G. M. Schneider, J. Ellert, U. Haarhaus, I. F. Holscher, G. Katzenski-Ohling, A. Kopner, J. Kulka, D. Nickel, J. Rubesamen & A. Wilsch	1115	Thermodynamic, spectroscopic and phase equilibrium investigations on polar fluid mixtures at high pressures
J. B. Gill	1127	Use of vibrational spectroscopy to examine species in solution: ion-pairing and metal–ligand complexation in liquid ammonia
H. Ohtaki	1143	Structural studies on solvation and complexation of metal ions in nonaqueous solutions
S. V. Volkov	1151	Spectroscopic investigations of molten salt systems. Theory and experiment
M. Salomon	1165	Ion–solvent effects and high energy batteries
B. Scrosati	1173	Semiconductor materials for liquid electrolyte solar cells
C-C. Chen	1177	Some recent developments in process simulation for reactive chemical systems
F. Franks	1189	Physical chemistry of small carbohydrates—equilibrium solution properties

Addendum: Section lectures from 10th International Conference on Nonaqueous Solutions (Leuven, Belgium: 17–21 August 1986) not published in Pure Appl. Chem., *Vol. 58, No. 8, August 1986*

G. A. Krestov	1203	Modern aspects of thermodynamics and structure of nonaqueous solutions
W. A. P. Luck	1215	Water in nonaqueous solvents

OCTOBER

Plenary and Selected Invited lectures presented at the Tenth International Conference on Raman Spectroscopy, Eugene, USA: 31 August–5 September 1986

J. R. Durig	iv	Preface

N. Bloembergen	1229	A Quarter century of stimulated Raman scattering
B. P. Stoicheff	1237	Generation of coherent and tunable ultraviolet radiation by scattering processes
M. Balkanski, M. Jouanne and M. Scagliotti	1247	Magnetic ordering induced Raman scattering in $FePS_3$ and $NiPS_3$ layered compounds
M. Inoue	1253	Enhanced Raman scattering by dielectric spheres
J. M. Robinson, H. M. Rojhantalab, V. L. Shannon, D. A. Koos and G. L. Richmond	1263	Monitoring surface structure and interfacial properties via second harmonic generation
S. Rodriguez and A. K. Ramdas	1269	Raman scattering by diluted magnetic semiconductors
T. Kitagawa	1285	Resonance Raman study on the role of the iron-ligand bond for functional activity of heme proteins
J. P. Taran	1295	CARS (coherent anti-stokes Raman spectroscopy) diagnostics of discharges
H. W. Schrotter and B. Lavorel	1301	High-resolution nonlinear rotation-vibrational Raman spectroscopy of gases
J. Laane	1307	Determination of vibrational potential energy surfaces from Raman and infrared spectra
J. R. Durig, J. F. Sullivan T. J. Geyer, S. E. Godbey and T. S. Little	1327	Conformational analysis of some organic molecules by gas phase Raman spectroscopy

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Commission on Molecular Structure and Spectroscopy (H. Q. Porter and D. W. Turner)	1343	A descriptive classification of the electron spectroscopies (Recommendations 1987)
Commission on Oils, Fats, and Derivatives (A. Hautfenne, W. D. Pocklington and J. P. Wolff)	1407	Determination of total and 'free' hexane content in extraction meals: results of a collaborative study and the standardised method
Commission on Pesticide Chemistry (N. Aharonson)	1419	Potential contamination of ground water by pesticides

NOVEMBER

Plenary lectures presented at the Thirteenth International Carbohydrate Symposium, Ithaca, NY, USA: 10–15 August 1986

	iv	International Carbohydrate Award
K. Bock	1447	Carbohydrate protein interactions: substrate specificity of enzymes used in the degradation of oligosaccharides related to starch and cellulose

G. Legler	1457	Basic monosaccharide derivatives: tools for exploring the active site of glycohydrolases and for studies in glycoprotein biosynthesis
J. P. Carver and D. A. Cumming	1465	Site-directed processing of N-linked oligosaccharides: the role of three-dimensional structure
K-A. Karlsson	1477	Glycolipids as attachment sites on animal cells for bacteria, bacterial toxins and viruses: aspects on identification and characteristics
D. M. Carlson	1489	From carbohydrates to cloning: regulation of gene expression
G. G. Stewart and I. Russell	1493	Biochemistry and genetics of carbohydrate utilization by industrial yeast strains
S. David and C. Augé	1501	Immobilized enzymes in preparative carbohydrate chemistry
T. Sumi	1509	Synthetic ventures in pseudo-sugar chemistry
S. J. Angyal	1521	Topics in carbohydrate stereochemistry

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Commission on Nomenclature of Inorganic Chemistry (Y. Jeannin and M. Fournier)	1529	Nomenclature of polyanions (Recommendations 1987)
Commission on Electroanalytical Chemistry (S. Rondinini, P. R. Mussini and T. Mussini)	1549	Reference value standards and primary standards for pH measurements in organic solvents and water + organic solvent mixtures of moderate to high permittivities
Commission on Oils, Fats, and Derivatives (A. Hautfenne, W. D. Pocklington and J. P. Wolff)	1561	Determination of hexane residues in oils: report on a collaborative study and the text of the standardised method

DECEMBER

Plenary lectures presented at the Eighth International Conference on Physical Organic Chemistry held in Tokyo, Japan: 24–29 August 1986

J. A. Berson	1571	Recent studies of reactive intermediates. The limits of Hund's rule in pi-conjugated non-Kekulé molecules
B. Capon, B-Z Guo, F-C Kwok and Z-P Wu	1577	Some studies on the tautomerism of heterocyclic and homocyclic compounds
R. Gleiter	1585	Pi-sigma interactions: Experimental evidence and its consequences for the chemical reactivity of organic compounds
H. Iwamura	1595	Design of organic molecules and molecular assemblies with electron spin alignment

A. J. Kirby	1605	Stereoelectronic effects on bond length and reactivity
J. Michl, J. G. Radziszewski, J. W. Downing, J. Kopecký, P. Kaszynski and R. D. Miller	1613	Bridgehead double bonds
S. Misumi	1627	Cycloaddition reactions of cyclophanes
H. Sakurai	1637	Structure and reaction controlled by strong sigma/pi interactions
P. von Ragué Schleyer	1647	A systematic survey of the effects of substituents on the structures and energies of the principal organic reaction intermediates
J. I. Seeman	1661	Recent studies on conformational analysis and steric effects

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Commission on High Temperature and Solid State Chemistry (G. Petzow and R. Sersale)	1673	Characterization of Si_3N_4 powders
Commission on Analytical Reactions and Reagents (E. V. Wänninen and F. Ingman)	1681	Metal buffers in chemical analysis: Part I — Theoretical considerations
Commission on Electroanalytical Chemistry (S. Rondinini, P. Longhi, P. R. Mussini and T. Mussini)	1693	Autoprotolysis constants in nonaqueous solvents and aqueous organic solvent mixtures
Commission on Equilibrium Data (M. T. Beck)	1703	Critical survey of stability constants of cyano complexes
Commission on Equilibrium Data (A. Braibanti, G. Ostacoli, P. Paoletti, L. D. Pettit and S. Sammartano)	1721	Recommended procedure for testing the potentiometric apparatus and technique for the pH-metric measurement of metal-complex equilibrium constants
Commission on Food Chemistry (G. Grimmer and J. Jacob)	1729	Recommended method for the gas chromatographic profile analysis of polycyclic aromatic hydrocarbons in smoked food
Commission on Food Chemistry (G. Grimmer and J. Jacob)	1735	Recommended method for a thin-layer-chromatographical screening method for the determination of benzo(a)pyrene in smoked food
Commission on Biotechnology (T. K. Ghose and V. S. Bisaria)	1739	Measurement of hemicellulase activities: Part I Xylanases